

Product Information

Control No. : ARP-4270500-E 1

Issued on June 12, 2024

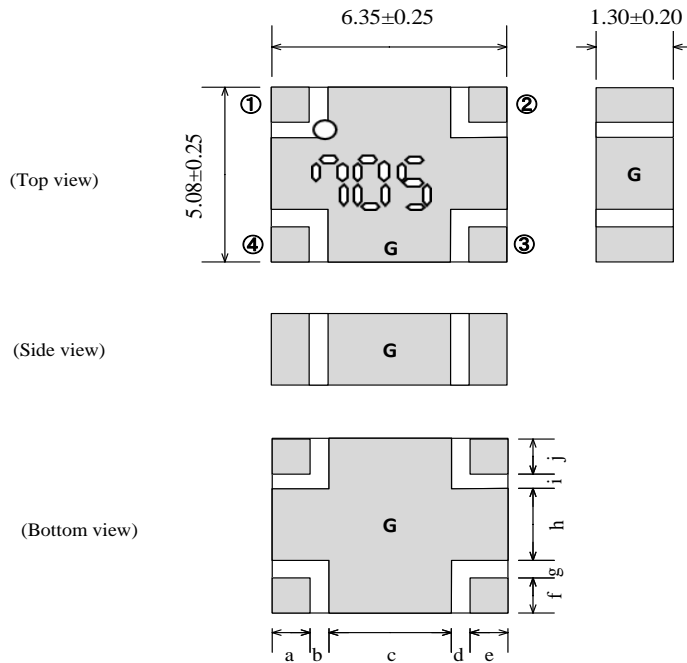
Measured data

RoHS Compliant Part

1. Type No.

HMD2705A-10M2500

2. Dimension (Unit : mm)



Terminal	
①	IN
②	OUT
③	Isolation
④	Coupling
G	GND

Terminal Dimensions	
a	1.02 +/- 0.10
b	0.51 +/- 0.20
c	3.30 +/- 0.20
d	0.51 +/- 0.20
e	1.02 +/- 0.10
f	1.02 +/- 0.10
g	0.51 +/- 0.20
h	2.08 +/- 0.20
i	0.51 +/- 0.20
j	1.02 +/- 0.10

3. Electrical characteristics

Parameter		Band1	Unit
Frequency Range	Specification	2300-2700	MHz
Nominal impedance	Specification	50	ohm
Mean Coupling	Specification	10.0 +/- 0.75	dB
	Typical	10.31	
Insertion Loss	Specification	0.25 Max.	dB
	Typical	0.12	
VSWR	Specification	1.22 Max.	-
	Typical	1.10	
Directivity	Specification	20.00 Min.	dB
	Typical	25.09	
Frequency Sensitivity	Specification	0.20 Max.	dB
	Typical	0.06	
Group Delay Terminal 1-2	Specification	0.14 +/- 0.04	nsec
	Typical	0.135 - 0.139	
Group Delay Terminal 1-4	Specification	0.14 +/- 0.04	nsec
	Typical	0.137 - 0.141	

4. Note

4.1 Operating Temperature Range

: -55 to +100 degC.

4.2 Storage Temperature Range

: -20 to +35 degC. (In a Taping Package)

4.3 Input Power

: max 200 W Avg/CW

4.4 Standard Reel Quantity

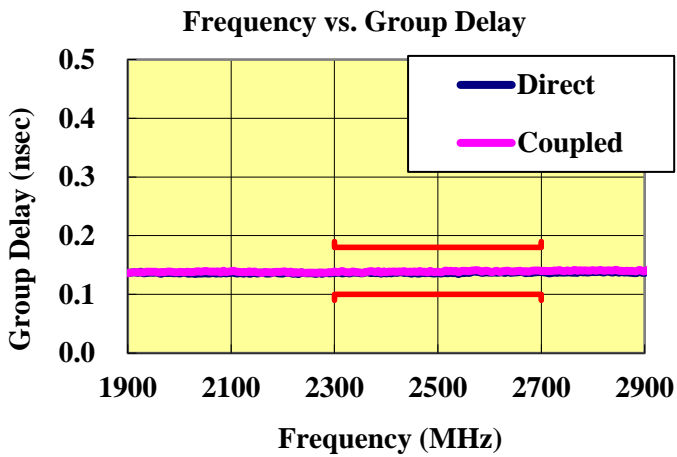
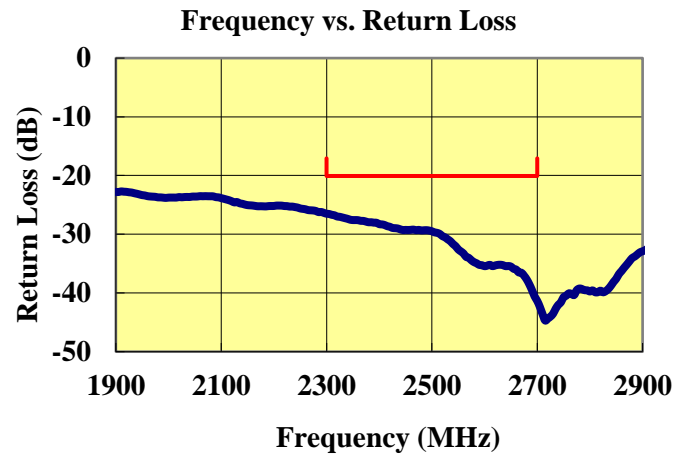
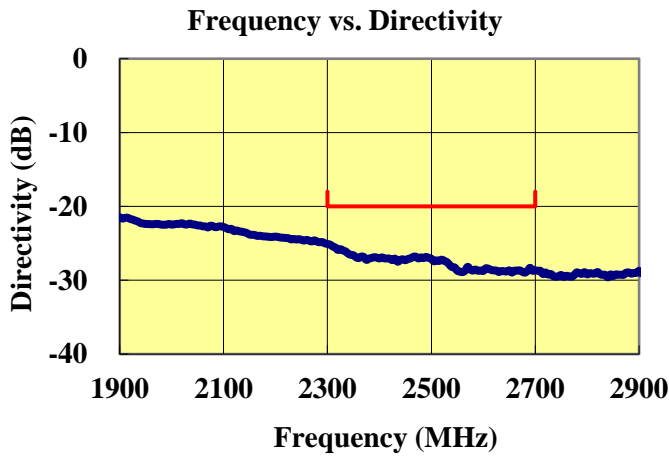
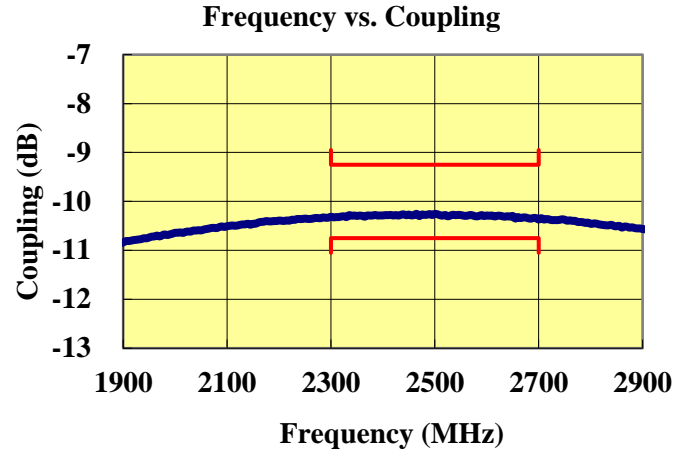
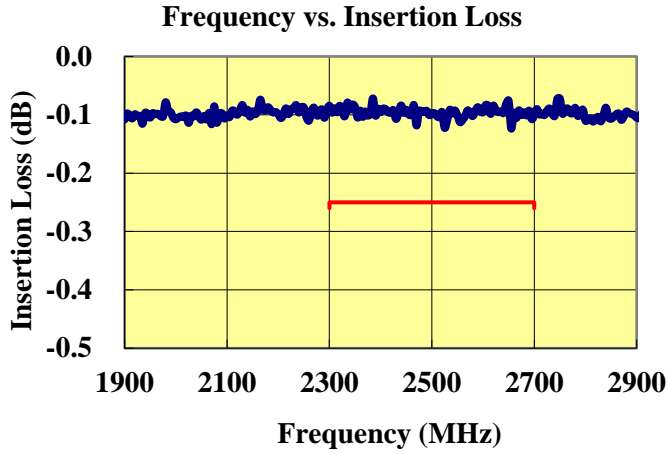
: 1,000 pcs (per reel, per bag)

Approved by	Confirmed by	Raised by
Y.Imai	S.Suzuki	R.Takahashi

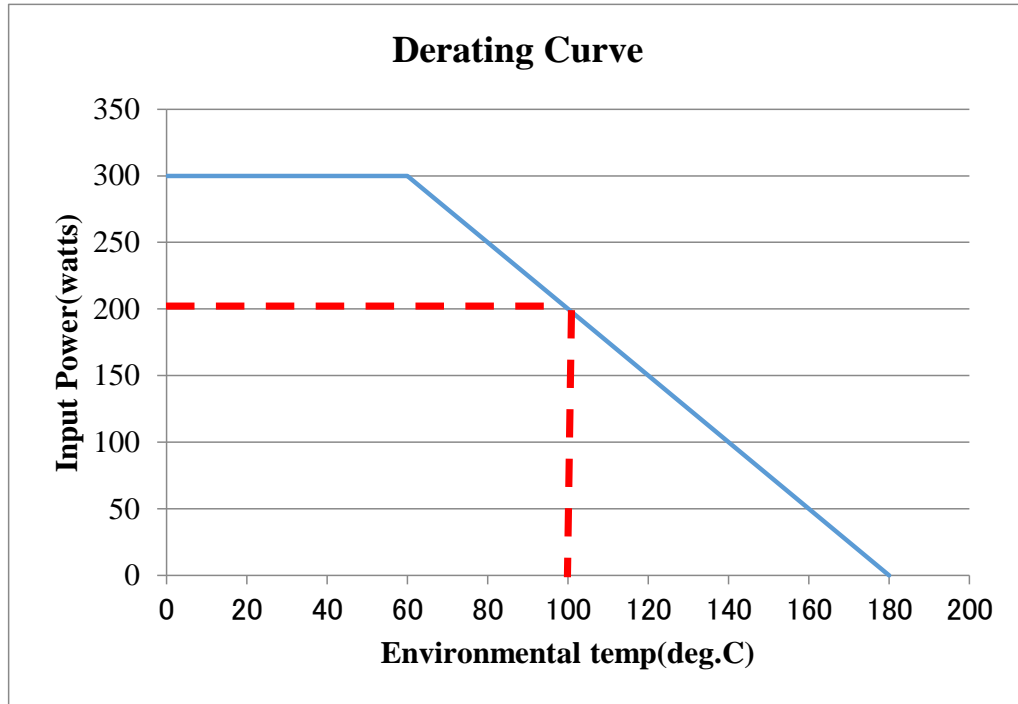
SOSHIN ELECTRIC CO., LTD

5.Representative characteristics

Measured data

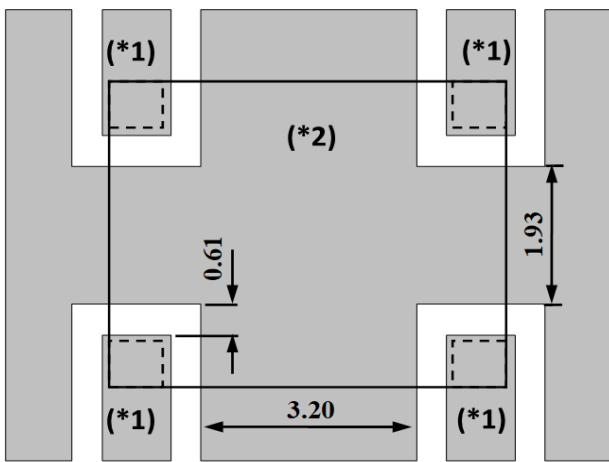


6. Derating Cueve

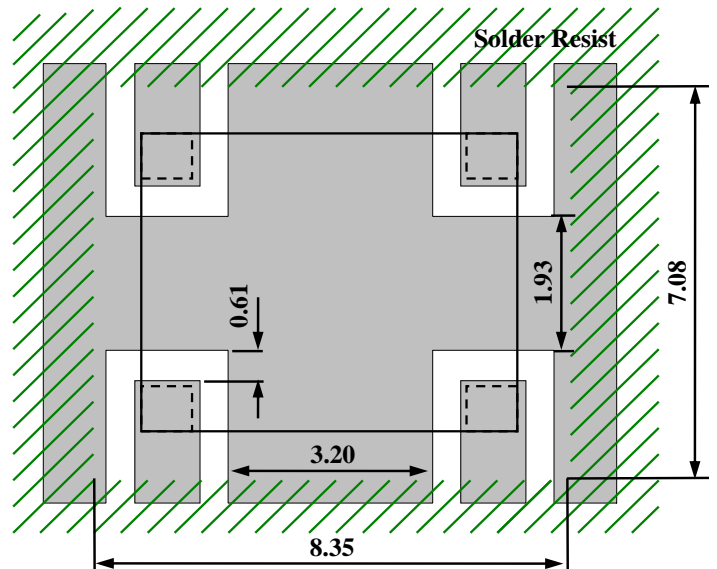


7.Recommended Land Pattern (Unit:mm)

Land Pattern



Resist Pattern



(*1) 50 ohm impedance line

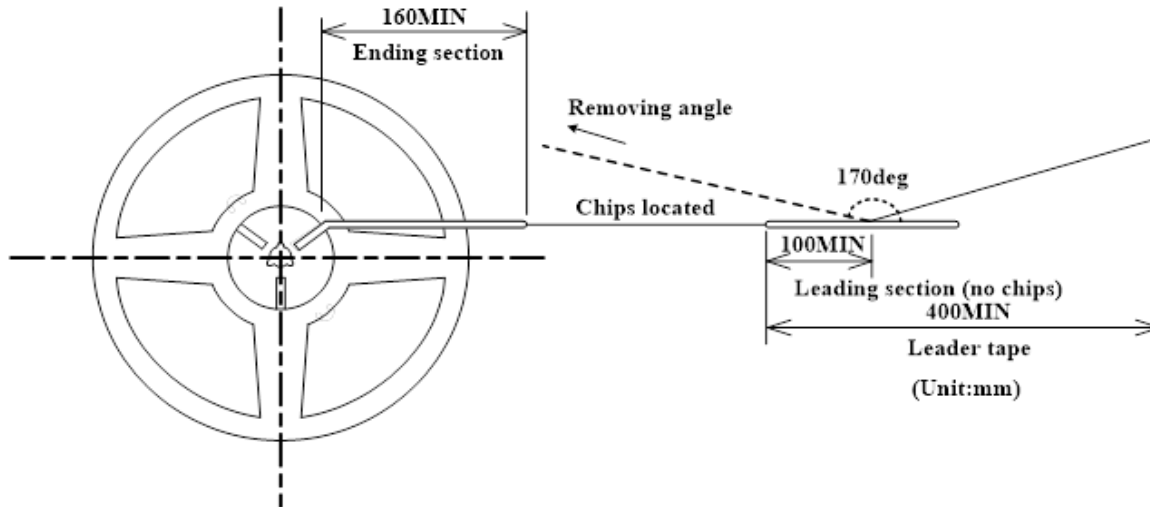
(*2) Ground Plane

8. Packing method

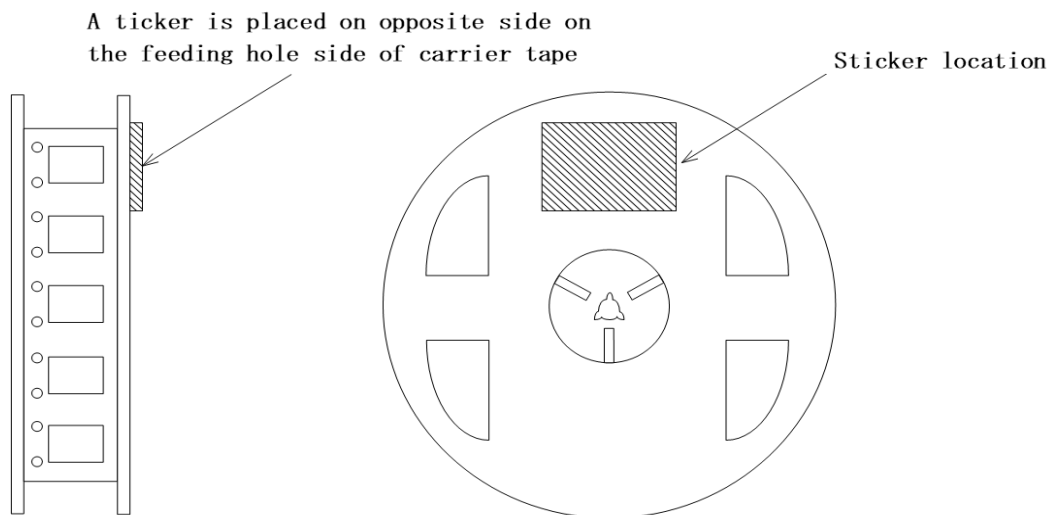
8. 1 Taping conditions

Taping conditions are shown below. Refer to IEC60286-3

- (1) Tape must be wound clockwise with the feeding hole coming to the right hand side.
- (2) Top cover tape must not cover feeding holes of carrier tape and/or show out of carrier tape.
- (3) A blank section carrying no chips of a length of 160mm min. on ending section and 100mm min. on leading section must be provided.
- (4) A leading section of 400mm min. must be provided on top cover tape.



- (5) To end tape winding, the leading section of top cover tape must be stuck on a side of a reel with adhesive tape.
- (6) Removing force of top cover tape in the unwinding with an angle of 170 degrees between the removed side of a reel and carrier tape must be 0.1 to 1.0N.
- (7) When the embossed tape is turned upside down with the sealing tape peeled off, the filter body inside of the tape must fall off and the mounter must not cause a take-up mistake.
- (8) A sticker carrying Soshin product №, quantity, lot №, inspection date is to be placed on the specified side of reels. And Lot No. means our production control number. The shipment records are available if requested.

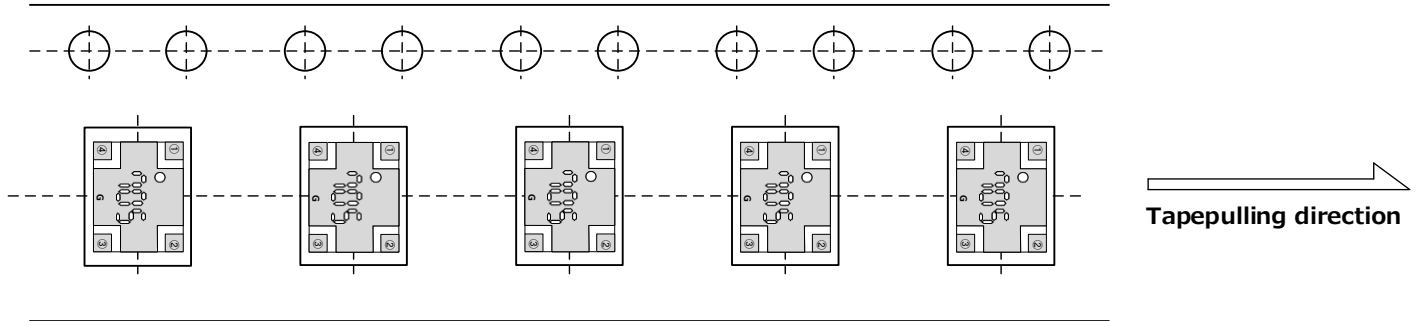


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(9) Product orientation must be consistent. Products must not be positioned out of the mounting location.

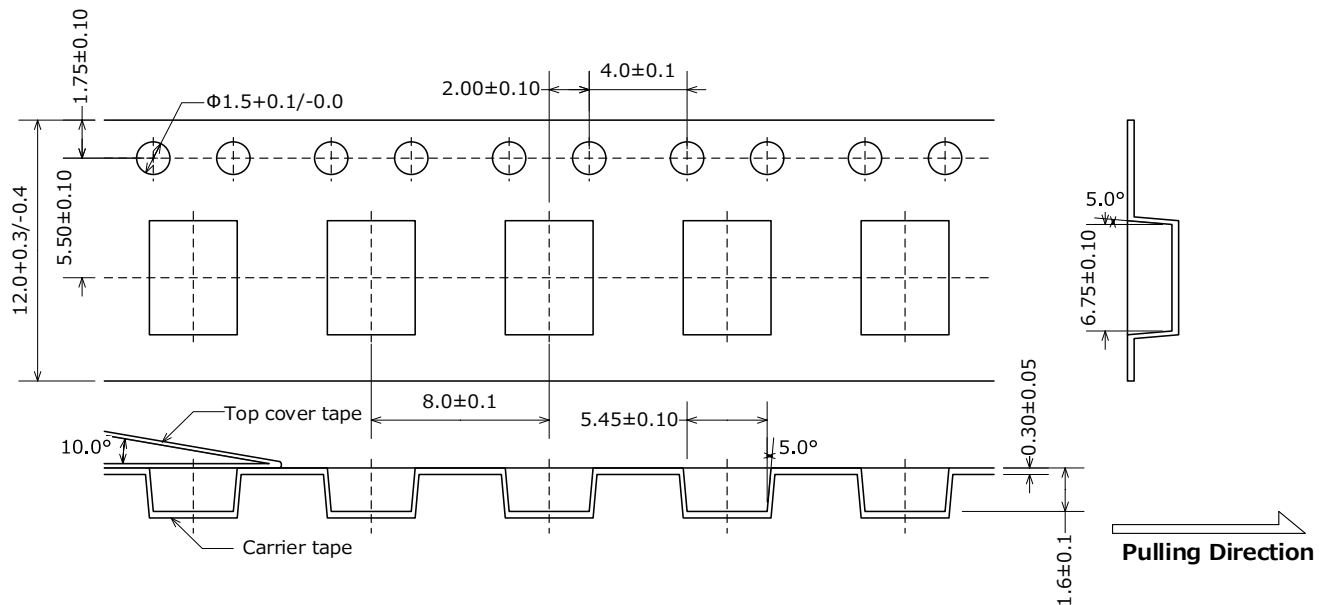


(10) A taping reel must be sealed in a plastic bag, individually.

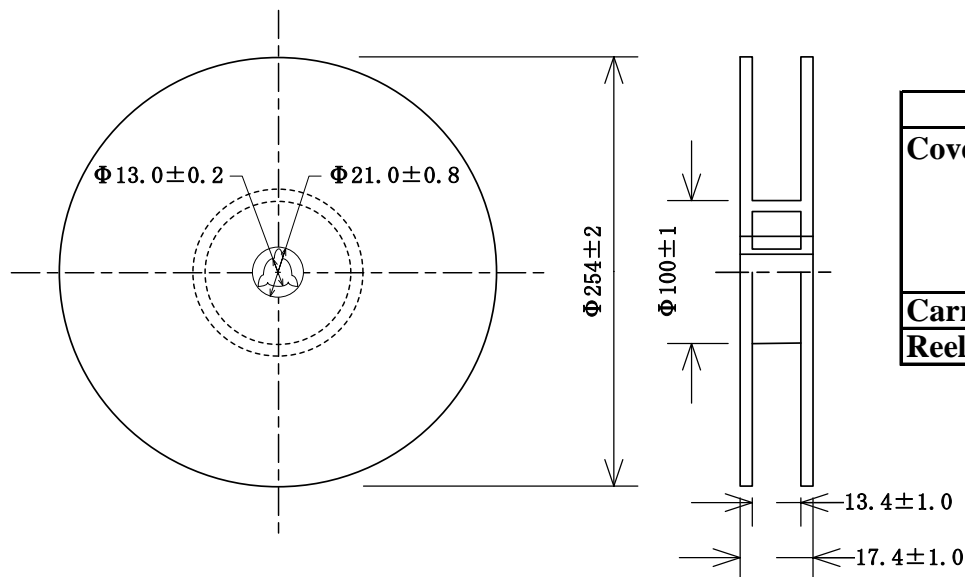
(11) Tape-packaged quantity

The quantity is 1,000 pcs per single tape-package as a rule.

8. 2 Dimensions of the carrier tape (Unit : mm)



8. 3 Carrier tape reel dimensions (Unit : mm)



Material	
Cover tape	Polyester + LDPE + PSresin+ Conductive coat
Carrier tape	PS+Carbon
Reel	PS+Carbon